

Department of Forensic Science Report to the Senate Finance Committee

Linda C. Jackson, Director Virginia Department of Forensic Science September 20, 2018

Statewide Case Receipt and Completion Statistics



Section		CY16				
	Received	Completed	% Completed	Received	Completed	% Completed
Controlled Substances	29,990	27,294	91%	33,108	29,512	89%
Toxicology	8,925	9,084	102%	9,256	9,460	102%
Digital & Multimedia Evidence (DME)	116	76	66%	81	77	95%
Forensic Biology (DNA)	4,518	4,173	92%	5,195	4,567	88%
Firearms & Toolmarks	7,216	5,554	77%	7,632	7,337	96%
Latent Prints & Impressions	2,730	2,886	106%	2,821	2,759	98%
Trace Evidence	783	840	107%	738	786	107%

Note: A 100% Completion rate indicates the capacity to complete what is received, but not improve case turnaround times or reduce case backlogs.

DFS Backlog and Average Turnaround Times (TAT)



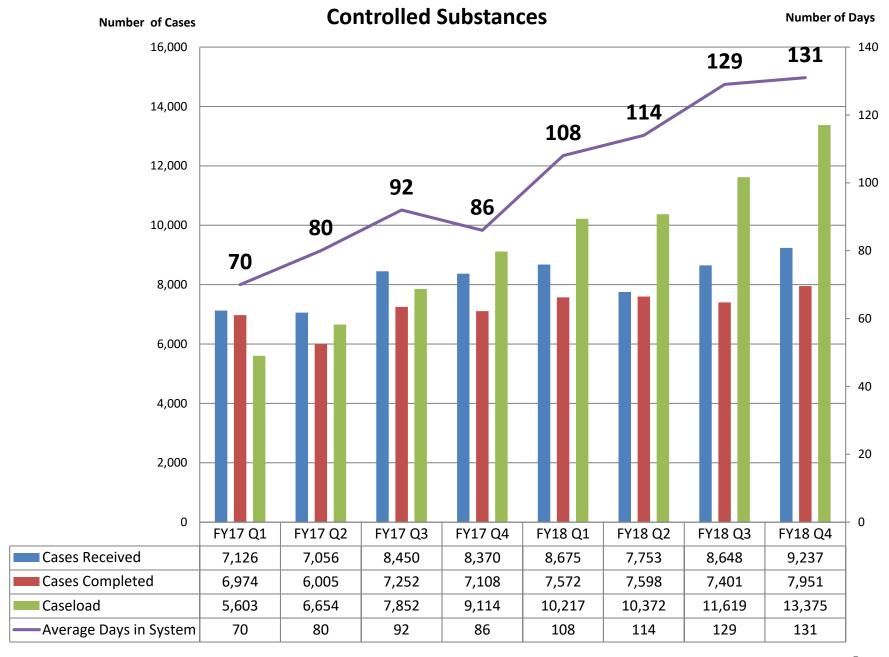
Discipline	Ending Backlog As of 9/1/18	Average TAT (in days) August 2018
Controlled Substances	13,410	134
Toxicology	872	36
Digital & Multimedia Evidence (DME)	129	127
Forensic Biology (DNA)	2,097	163
Firearms & Toolmarks	2,325	133
Latent Prints & Impressions	514	60
Trace Evidence	116	57

FY19/FY20 Biennial Budget



Item	FY2019	FY2020	FTE
Increase staffing for Controlled Substances Section and provide funding for overtime	\$ 595,000	\$ 660,000	6
Increase staffing for Digital and Multimedia Evidence Section	\$ 82,500	\$ 110,000	1
Provide funding for one research scientist for the Forensic Biology Section	\$ 82,500	\$ 110,000	1
Finance purchase of scientific instruments via MELP	\$ 167,750	\$ 403,250	0

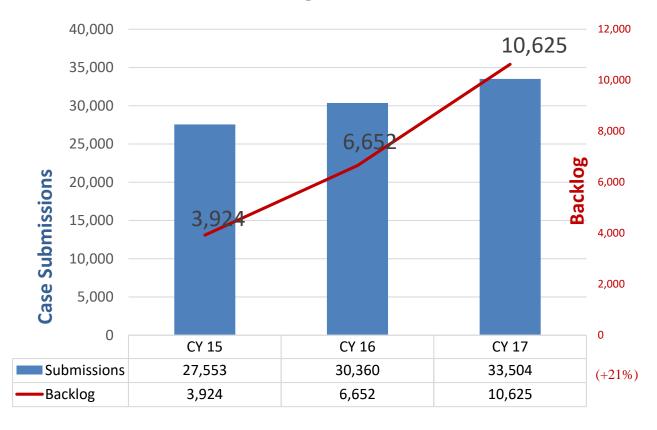
Caboose Bill for FY2018 included \$125,000 for examiners in Forensic Biology and Controlled Substances to work mandatory overtime.



Controlled
Substances
Challenges

- Increased submissions
- Increased sample complexity
- Increased safety measures
- Increased reporting requirements

Increased Drug Case Submissions



	Jan Aug. 2018	22,292
Case Submissions	Increase over the same period in 2017	8.7%
	Estimated for 2018 (Extrapolated)	36,355

Actions Taken Prior to FY19



- Issued Policy Notice Dec. 1, 2017
 - Gross weights
 - Limit food products
 - Limit search warrant evidence
- Created 3 new positions effective July 1, 2017
- Created FLS support positions in Eastern and Western
- Received 6 FS positions for FY19 all will start by 10/25/18
- Performed mandatory and voluntary overtime
- Transferred cases to normalize case turnaround times
- Posted current average case turnaround times online

http://www.dfs.virginia.gov/about-dfs/current-turnaround-times/

Where we could be...



- This scenario projects the current increase trend of 10% to continue through June 2019 and then plateau
- Assumes fully trained staff capacity by June 2019 with 3 positions unable to assist with casework (e.g., extended leave, turnover)

Calendar Year	2018	2019	2020	2021	2022
Projected Annual Receipts	36,480	38,290	38,290	38,290	38,290
Projected Average Monthly Receipts	3,040	3,190	3,190	3,190	3,190
Projected Backlog at the end of the Calendar Year if no Additional Action is Taken	15,980	18,880	21,430	24,640	27,860

Controlled Substances



Actions underway:

- RFP to outsource backlogged cases with 1-2 items
- Hire additional staff based on projections
- Implement grant-funded Lean Six Sigma project beginning in January 2019 to increase efficiency and quality of analytical process
- Evaluate potential submission policy changes with customer input

Additional Funding for FY19



Develop additional capacity with positions and equipment	FY19
Beginning in FY19, fill six currently unfunded positions with	¢550,000
additional Controlled Substances Forensic Scientists	\$550,000
Obtain additional equipment needed for the increased number of	¢250,000
scientists	\$250,000
Increase support staff capacity	
Add two wage administrative specialist positions	\$40,000
Add two evidence receiving wage personnel	\$40,000
Outsource a portion of the backlog	
Eight thousand cases with one or two items will be sent to a private	
laboratory over a 27-month period (final payments will be made in	\$750,000
FY21 ~\$350,000)	
Dedicate two Forensic Scientists to training	
To maximize teaching resources, trainees will travel to another	\$30,000
laboratory as part of their training	330,000
Total Expenses	\$1,660,000

Controlled Substances Staffing







With all actions taken...



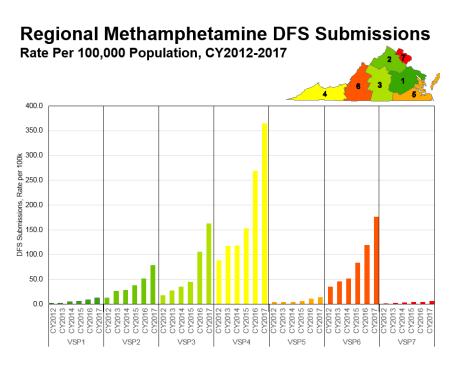
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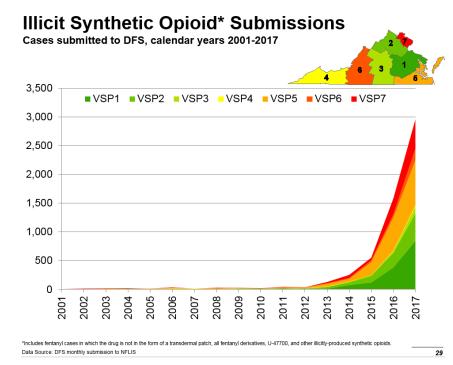
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Dustanted Davidse at the and of the Colouday				5,890	3,150
Projected Backlog at the end of the Calendar Year with Recommended Actions Taken	15,000	12,890	8,010	< 60	< 30
real with Recommended Actions Taken				Day TAT	Day TAT

Drug Cases Submitted to VADFS Calendar Year 2017



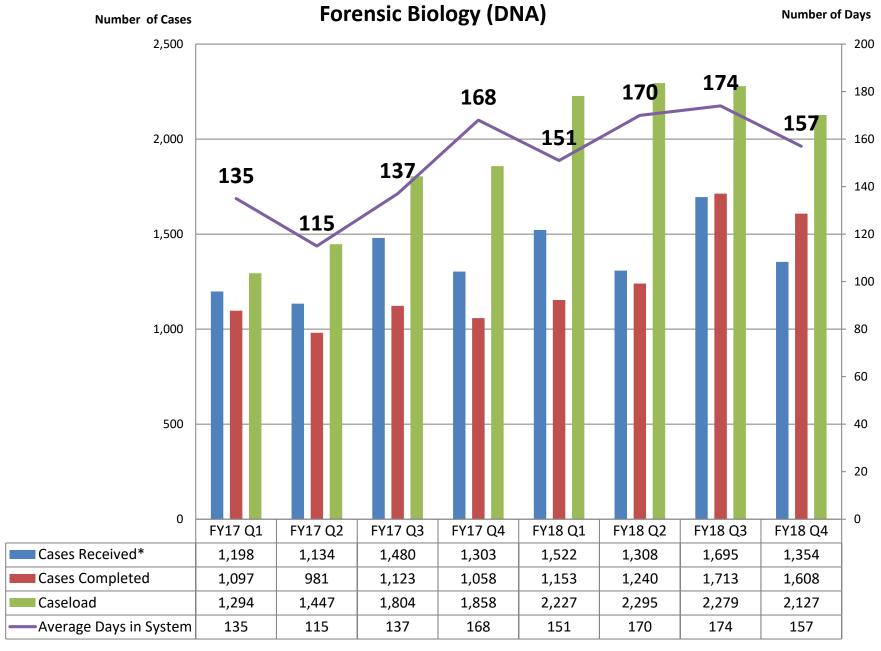
A Joint Report by the Virginia Departments of Forensic Science and Criminal Justice Services





Published on August 10, 2018

http://www.dfs.virginia.gov/documentation-publications/



Forensic Biology



Staffing

- -3 scientists have completed training since May 2018
- -4 scientist positions in training (last year = 12 positions)
- New research/validation position was filled internally
- —1 vacated scientist position in hiring process
- ─2 vacated DNA Data Bank positions in hiring process

Validation Projects

- Several research projects are underway to increase automation and productivity
 - Increase use of robotic automation
 - Decrease time for statistical calculations
 - Increase analyses performed on most efficient instrumentation

PERK Grants



New York County District Attorney's (DANY) Sexual Assault Kit **Backlog Elimination Program**

\$123,226

10/1/15 -

- Testing for kits collected prior to 7/1/14
- 1807 kits were submitted to Bode from 97 jurisdictions
- Testing in process or completed for 54 of those jurisdictions
- Data received from private lab in 1,564 cases as of 9/4/18

National Sexual Assault Kit Initiative FY 2016 Competitive		10/1/16 -
Grant (SAKI)	\$421,155	9/30/19

- DNA Research Assistant
- PERK Tracking Software beta test version in development
- 1232 eligible kits as per OAG inventory of kits collected between 7/1/14 - 6/30/16
- Several jurisdictions have sent evidence to the contract laboratory, but testing will not begin until DANY testing is completed

Toxicology Program Area



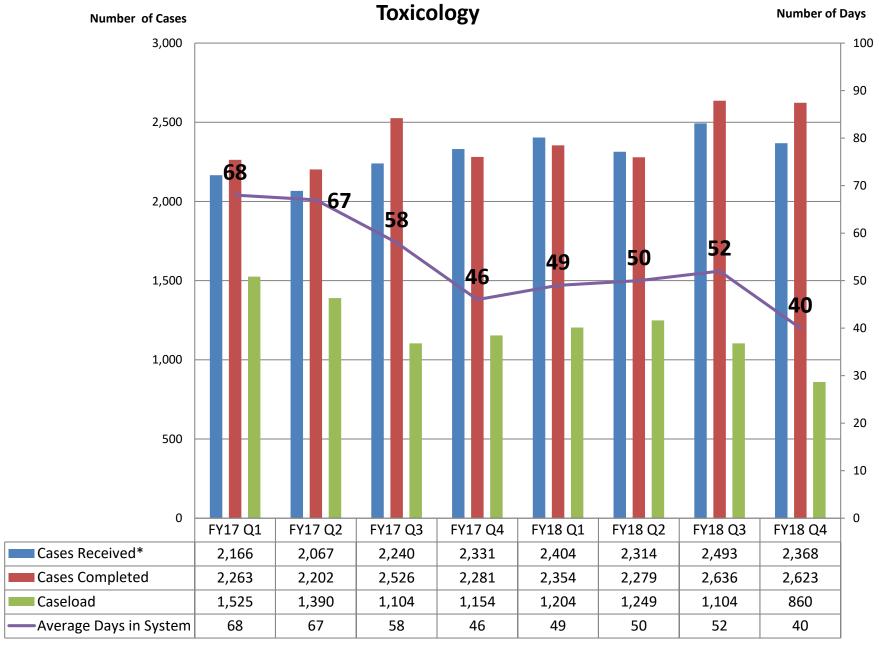
Breath Alcohol

- Intox EC/IR II instruments will be enhanced in FY2019
 - Allow for laser printers
 - Allow for high speed test data transfer
- Deployed new online recertification for Intox EC/IR II Operators

Toxicology

- Expanded methodology to identify over 30 synthetic opioids
- For the past quarter, 100% of OCME cases completed within 90 days

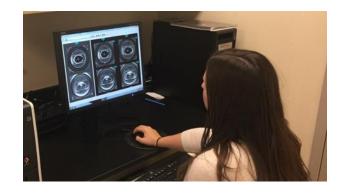




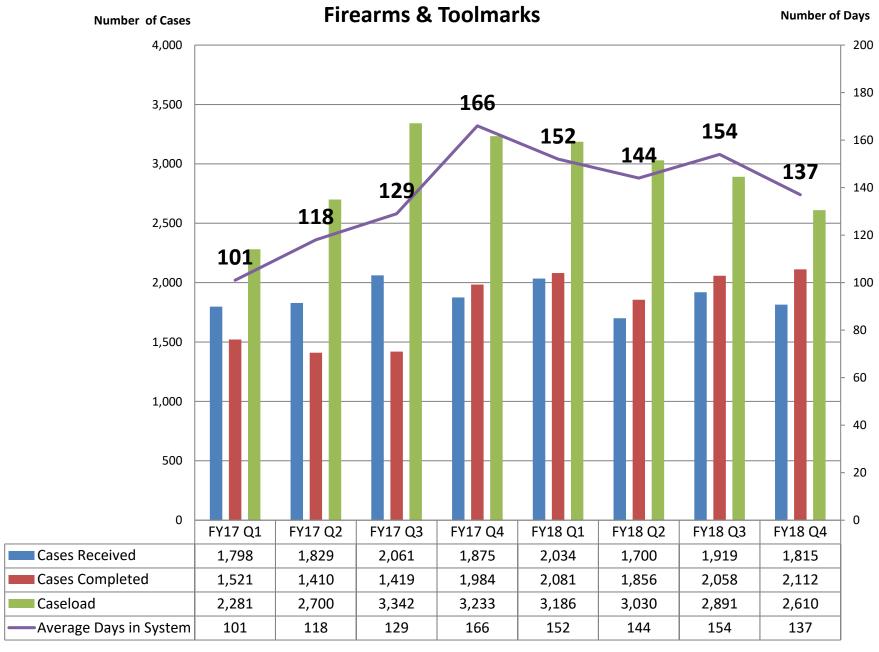
Firearms & Toolmarks



- FY17 budget provided ~\$600,000 in funding for positions and equipment
- Created new Forensic Scientist NIBIN positions
- Purchased equipment to provide full NIBIN capability in all 4 laboratories



Backlog has decreased for the last 5 quarters



Instrumentation Funding



- Replacement instrumentation in Breath Alcohol, Toxicology, Controlled Substances and DNA will be purchased using MELP in FY19/20
- Seeking Grants
 - Byrne/JAG (DCJS): \$220,000 for 2 GC/MS instruments in Controlled Substances
 - Center for Disease Control (VDH): \$948,000 for 4 robotic sample preparation instruments for toxicology and drug standards (PENDING)

Central Facility Update



- Biotech 2 houses both DFS and OCME
 - Both DFS and OCME lease additional space
- Project Funded through Detailed Planning
 - 2014 Chapter 2 and 2016 Chapter 759/769
 - Total Approved Budget \$137,954,186
 - Approved Scope
 - 145,700 SF Expansion
 - 134,100 SF Renovation
 - 134,000 Parking Structure (351 Spaces)
- Construction Manager at Risk
 - SFCS selected as Project Architect
 - Skanska selected to provide Construction Management
- Approved Scope was expanded in FY19/FY20 budget



WWW.DFS.VIRGINIA.GOV